



## Closure Report

Apache Corporation  
Sinclair B State #3 Pit  
30-025-09248  
OCD Permit Number: pDHR1918355257, 144P-16193  
Lea County, NM



**New Mexico Oil Conservation Division**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

September 8, 2022

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## I. Background

Due to lack of growth in the area of a non-permitted historical pit (see *Figure 1* for Vicinity Map), an initial delineation was performed, and contamination was discovered. Apache Corporation determined remediation was required. There is no release associated with this contamination.

A Closure Plan was submitted and approved under OCD Permit Number pDHR1918355257, 144P-16193 (included as *Appendix C*). All soil has met thresholds set forth in this closure plan and no further remediation action is required.

RXSoil, Inc. ("RXSoil") is submitting this closure report remediation summary to the OCD for closure of the on-site bioremediation of hydrocarbon contaminated soil at the historical pit (32.33799, -103.25886) located in U/L D, Section 3, Township 23S, Range 36E associated with the following site:

Sinclair B State #3  
30-025-09248.

The treatment described in this report successfully led to all soil meeting thresholds through the sampling methods set forth in the approved Closure Plan. Upon approval, reclamation and reseeded will occur, prior to the next growing season.

The C-144 form is included as *Appendix A*.

## II. Remediation Summary

RXSoil used in-situ bioremediation to address the contamination to get below regulatory thresholds.

Per NMAC 19.15.17.13.E, RXSoil notified the surface owner (State Land Office) by certified mail (*Appendix D*), return receipt requested that the operator planned closure operations at least 72 hours, but not more than one week, prior to any closure operation. This notice was a copy of the approved closure plan which included well name, API number and location, as required.

RXSoil tilled the asphaltene-like substance on the surface of the pit area to allow for treatment.

RXSoil guided and supervised drilling boreholes in a grid-like pattern. 90 boreholes were drilled and a delivery system was installed in the boreholes as well as on the surface to ensure even coverage of bioremediation products.

RXSoil periodically applied RXBiotics, a mixture of naturally occurring, non-genetically modified microbes and micronutrients specifically selected to reduce total petroleum hydrocarbons.

Following the initial treatment, soil samples were taken to check remediation status, as described in the approved Closure Plan. A total of 10 new boreholes were drilled for sampling. Two five-point composite samples (sampling borehole locations shown in *Figure 2*) were collected and analyzed at the surface and then at three-foot increments down to 15' below ground surface for a total of 12 samples throughout the profile. Samples were directly transferred into glass jars, sealed shut and transported on ice to a third-party lab for TPH and BTEX testing. Initial delineation provided strong evidence that no chloride or BTEX contamination was present.

Incremental samples showed some depths tested above the thresholds listed for groundwater >100 feet in NMAC 19.15.17 Table II, so as the Closure Plan stated, treatment continued. The following round of treatment showed soil successfully achieved these regulatory thresholds and no further remedial action is required. A summary table of all remediation samples is included as *Appendix B* with third-party laboratory reports in *Appendix E*. The initial delineation results are included in the original Closure Plan (*Appendix C*).

**III. Restoration, Reclamation and Re-vegetation**

The restoration, reclamation and re-vegetation plan for this site are described in the Restoration Plan, attached as *Appendix F*. These actions will occur following approval of the successful remediation and reclamation photos will be submitted for confirmation.

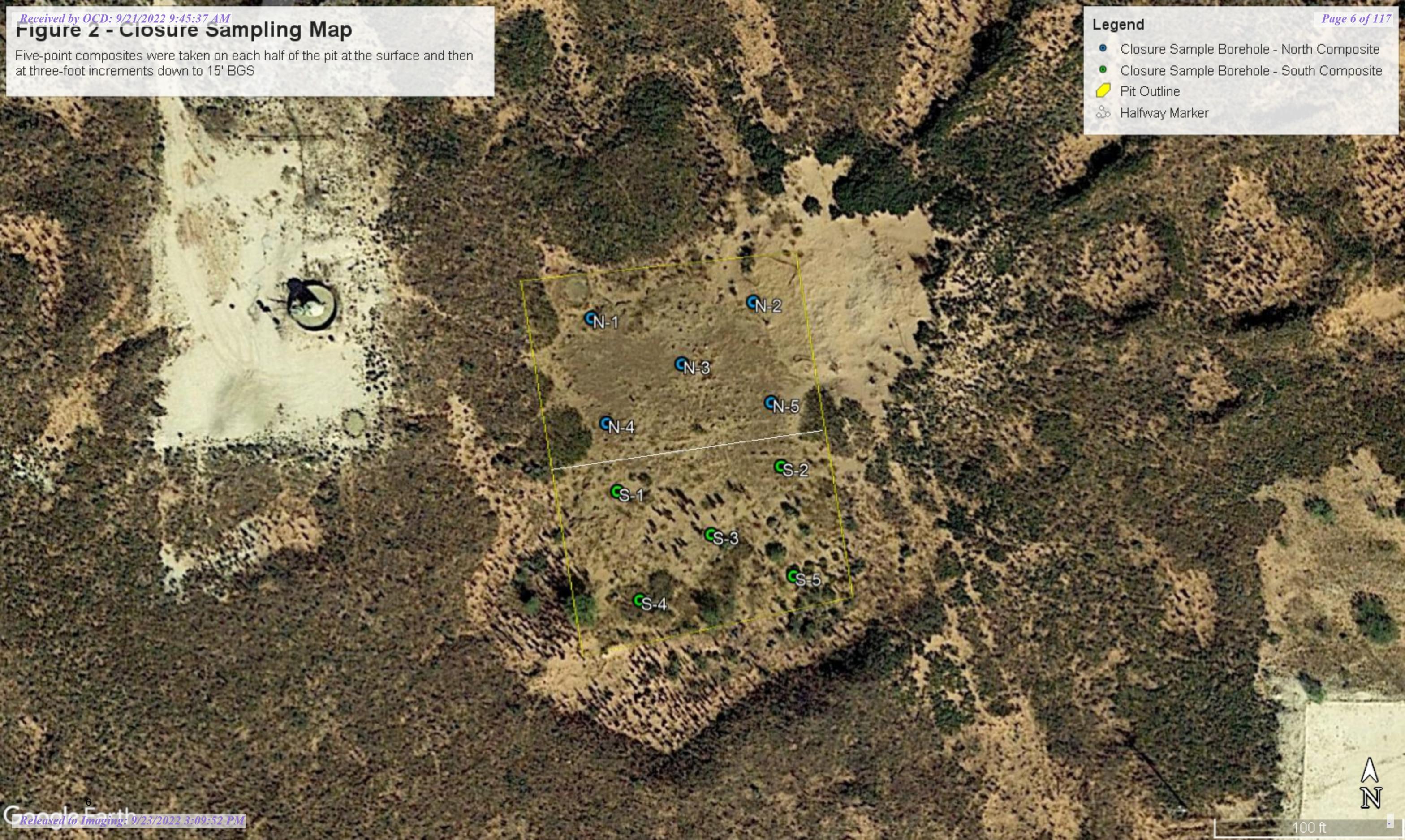


### Figure 2 - Closure Sampling Map

Five-point composites were taken on each half of the pit at the surface and then at three-foot increments down to 15' BGS

**Legend**

- Closure Sample Borehole - North Composite
- Closure Sample Borehole - South Composite
- ▭ Pit Outline
- ⊕ Halfway Marker



100 ft

**APPENDIX A**

**C-144 FORM**

REVIEWED

By Dylan Rose-Coss at 3:24 pm, Jul 02, 2019

District I
1625 N French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

- Type of action:
Below grade tank registration
Permit of a pit or proposed alternative method
Closure of a pit, below-grade tank, or proposed alternative method
Modification to an existing permit/or registration
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: Apache Corporation OGRID #: 873
Address: 303 Verterans Airpark Lane, Ste. 3000, Midland, TX 79705
Facility or well name: Sinclair B State No. 003
API Number: 30-025-09248 OCD Permit Number:
U/L or Qtr/Qtr D Section 3 Township 23S Range 36E County: Lea
Center of Proposed Design: Latitude 32.33799 Longitude -103.25886 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2. Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D

3. Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other
Liner type: Thickness mil HDPE PVC Other

4. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify

6. **Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)  
 Screen  Netting  Other \_\_\_\_\_  
 Monthly inspections (If netting or screening is not physically feasible)

7. **Signs:** Subsection C of 19.15.17.11 NMAC  
 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
 Signed in compliance with 19.15.16.8 NMAC

8. **Variations and Exceptions:**  
 Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  
**Please check a box if one or more of the following is requested, if not leave blank:**  
 Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9. **Siting Criteria (regarding permitting):** 19.15.17.10 NMAC  
*Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

<u>General siting</u>	
<b>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</b> - <input type="checkbox"/> NM Office of the State Engineer - iWATERS database search; <input type="checkbox"/> USGS; <input type="checkbox"/> Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
<b>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</b> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. <b>(Does not apply to below grade tanks)</b> - Written confirmation or verification from the municipality: Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. <b>(Does not apply to below grade tanks)</b> - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. <b>(Does not apply to below grade tanks)</b> - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. <b>(Does not apply to below grade tanks)</b> - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Below Grade Tanks</b>	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption: - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Temporary Pit using Low Chloride Drilling Fluid</b> (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site: Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b><u>Temporary Pit Non-low chloride drilling fluid</u></b>	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site: Aerial photo: Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b><u>Permanent Pit or Multi-Well Fluid Management Pit</u></b>	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site: Aerial photo: Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No

10. **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC

Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC

Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11. **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC

Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC

A List of wells with approved application for permit to drill associated with the pit.

Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC

Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H<sub>2</sub>S. Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Multi-well Fluid Management Pit  
 Alternative
- Proposed Closure Method:  Waste Excavation and Removal  
 Waste Removal (Closed-loop systems only)  
 On-site Closure Method (Only for temporary pits and closed-loop systems)  
 In-place Burial  On-site Trench Burial  
 Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells Appendix B/C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map: Visual inspection (certification) of the proposed site Figure 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site: Aerial photo: Satellite image Appendix F	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database: Visual inspection (certification) of the proposed site Appendix B/C Figure 3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Written confirmation or verification from the municipality: Written approval obtained from the municipality N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site Appendix F	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality: Written approval obtained from the municipality N/A  Yes  No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Appendix G  Yes  No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map Appendix H  Yes  No

Within a 100-year floodplain.

- FEMA map Appendix I  Yes  No

16. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

See Section 15. Siting Criteria

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ¶2 of "Remediation Plan" Section in Closure Plan
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- N/A  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- N/A  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC "Remediation Plan" Section in Closure Plan
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC ¶5 of "Remediation Plan" Section in Closure Plan
- N/A  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- N/A  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Appendix D. Restoration Plan
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Appendix D. Restoration Plan
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Appendix D. Restoration Plan

17. **Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Bruce Baker Title: Environmental Tech SR

Signature: Bruce Baker Date: 6-4-19

e-mail address: larry.baker@apachecorp.com Telephone: 432-631-6982

18. **OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature: Dylan Rose-Coss Approval Date: 07/02/2019

Title: NMOCD D1 Environmental Specialist OCD Permit Number: pDHR1918355257 144P-16193

19. **Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: 08/29/2022

20. **Closure Method:**

Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)

If different from approved plan, please explain.

21. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 32.33799 Longitude -103.25886 NAD:  1927  1983

22.

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Larry Baker Title: Environmental Tech Sr. Staff

Signature: *Larry Baker* Date: 9/20/2022

e-mail address: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Closure Report Approval: *Jaclyn Burdine* Jaclyn Burdine, Environmental Specialist-A;  
09/23/2022; Temp Pit #1

**APPENDIX B**

**SUMMARY TABLE OF REMEDIATION RESULTS**

Sinclair B Remediation Data														
Sample ID	Area	Depth ft	Sample Date	Received	Lab ID Sample	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	EXT DRO	TPH
						8021B					8015M			
A 1	North	0	7/14/2022	7/19/2022	H223096-01	<0.05	0.083	<0.05	<0.15	<0.3	<10.0	<b>2350</b>	1040	<b>3390</b>
A 1			8/23/2022	8/25/2022	H223914-01	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	723	350	1073
A 2		3	7/14/2022	7/19/2022	H223096-02	<0.05	0.056	<0.05	<0.15	<0.3	<10.0	<b>2050</b>	630	<b>2680</b>
A 2			8/23/2022	8/25/2022	H223914-02	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	916	510	1426
A 3		6	7/14/2022	7/19/2022	H223096-03	<0.05	0.053	<0.05	<0.15	<0.3	<10.0	<b>1080</b>	513	1593
A 3			8/23/2022	8/25/2022	H223914-03	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	297	144	441
A 4		9	7/14/2022	7/19/2022	H223096-04	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	818	423	1241
A 5			7/14/2022	7/19/2022	H223096-05	<0.05	<0.05	<0.05	<0.15	<0.3	<b>46.0</b>	<b>1750</b>	580	2376
A 5		12	8/23/2022	8/26/2022	H223914-04	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	252	78.9	331
A 6			7/14/2022	7/19/2022	H223096-06	<0.05	<0.05	<0.05	<0.15	<0.3	<b>130</b>	<b>4210</b>	944	<b>5284</b>
A 6		15	8/23/2022	8/26/2022	H223914-05	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	87.9	14.1	102
B 1			7/14/2022	7/19/2022	H223096-07	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	<b>3510</b>	1070	<b>4580</b>
B 1	South	0	8/24/2022	8/26/2022	H223914-06	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	435	231	666
B 2			7/14/2022	7/19/2022	H223096-08	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	<b>3100</b>	1190	<b>4290</b>
B 2		3	8/24/2022	8/26/2022	H223914-07	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	161	76.2	237
B 3			7/14/2022	7/19/2022	H223096-09	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	<b>2310</b>	821	<b>3131</b>
B 3		6	8/24/2022	8/26/2022	H223914-08	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	913	309	1222
B 4			7/14/2022	7/19/2022	H223096-10	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	670	306	976
B 5		12	8/24/2022	8/26/2022	H223914-09	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	135	34.9	170
B 6			8/24/2022	8/26/2022	H223914-10	<0.05	<0.05	<0.05	<0.15	<0.3	<10.0	118	24.2	142
<b>NMOC thresholds per NMAC 19.15.17 Table II</b>						<b>10</b>				<b>50</b>	<b>1000</b>		<b>2500</b>	

All results reported in mg/kg

**Bold** results indicate samples tested above threshold and treatment continued in that area

**APPENDIX C**

**COPY OF APPROVED CLOSURE PLAN**



## Closure Plan

Apache Corporation  
Sinclair B State #3 Pit  
30-025-09248  
Lea County, NM



### New Mexico Oil Conservation Division

District 1 – Hobbs  
1625 N. French Drive  
Hobbs, New Mexico 88240

May 30, 2019

RXSoil, Inc.

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## Background

Due to lack of growth in the area of a non-permitted historical pit (see *Figure 1* for Vicinity Map), an initial delineation was performed, and contamination was discovered (see *Appendix A* for data and *Figure 2* for Site Overview with sample locations). Apache Corporation has determined remediation will be required. There is no release associated with this contamination.

RXSoil, Inc. ("RXSoil") is submitting this closure plan proposal to the OCD for the on-site bioremediation of hydrocarbon contaminated soil at the historical pit (32.33799, -103.25886) located in U/L D, Section 3, Township 23S, Range 36E associated with the following site:

Sinclair B State #3  
30-025-09248.

This treatment will provide the following benefits:

- Bioremediation of distressed soils using non-invasive processes.
- Enhance soil health to accelerate regrowth in affected areas.
- Minimize disruption to adjacent land and property.
- Minimize the need to transport soil via trucks, avoiding damaging roadways.
- Avoid importing foreign soils from other areas.
- Reduce carbon footprint using naturally occurring and environmentally friendly products.

## Site Assessment

USGS lists USGS 321936103154601, located approximately 3,000' to the southwest, as the closest well to the pit location. Between 1965 and 2016, 11 groundwater measurements were recorded with all depths to groundwater listed between 162' and 167' (*Appendix B*). New Mexico Office of the State Engineer lists the nearest well with groundwater depth as approximately 7,475' to the northeast and signifies depth to water is 160' (*Appendix C*). Per Google Earth, the USGS well elevation is 3,493, the pit area elevation is 3,490' and the NM OSE well elevation is 3,514'. These two sources provide strong evidence that groundwater is greater than 100' below the bottom of the buried waste (See *Figure 3* for Hydrology Map).

Based on initial delineation (*Appendix A* with laboratory report as *Appendix E*), there are elevated TPH levels in SP 1 to 13', SP 2 to 9' and SP 4 to 6'. Chloride tests (Method 4500) and BTEX tests (8021B) were also conducted on each sample with no results exceeding thresholds listed in NMAC 19.15.17 Table II for areas with minimum depth to groundwater >100 feet.

## Remediation Plan

RXSoil will use in-situ bioremediation to address the contamination in order to regrow vegetation and get below regulatory thresholds. RXSoil will supervise all construction with approval from area utilities owners via NM 811.

Per NMAC 19.15.17.13.E, RXSoil and Apache will notify the surface owner (State Land Office) by certified mail, return receipt requested that the operator plans closure operations at least 72 hours, but not more than one week, prior to any closure operation. This notice shall include well name, API number and location.

RXSoil will till the asphaltene-like substance on the surface of the pit area to allow for treatment.

RXSoil, Inc.

RXSoil will guide and supervise drilling boreholes in a grid-like pattern. Approximately 90 boreholes will be drilled and backfilled with gravel for treatment. A delivery system will be installed in the boreholes as well as on the surface to ensure even coverage of bioremediation products.

RXSoil will treat the contaminated soil via boreholes and topical applications periodically over an estimated 180-day period. RXSoil will use RXBiotics, a mixture of naturally occurring, non-genetically modified bacteria and micronutrients specifically selected to reduce total petroleum hydrocarbons. Efforts will be made to minimize water usage. Instruments will be installed on the outer edges of the pit area to ensure minimal migration of solution.

Following the initial treatment, soil samples will be taken to check remediation status. A total of 10 new boreholes will be drilled for sampling. Two five-point composite samples (sampling borehole locations shown in *Figure 4*) will be collected and analyzed at the surface and then at three-foot increments down to 15' below ground surface for a total of 12 samples throughout the profile. Samples will be directly transferred into glass jars, sealed shut and transported on ice to a third-party lab for TPH testing. Initial delineation provides strong evidence that no chloride or BTEX contamination is present.

Following this round of testing, an assessment will be made about the efficacy of this process. If any of the results are above the thresholds listed for groundwater >100 feet in NMAC 19.15.17 Table II, treatment will continue in that area. The area will be considered remediated when all samples test below regulatory thresholds.

#### **Restoration, Reclamation and Re-vegetation**

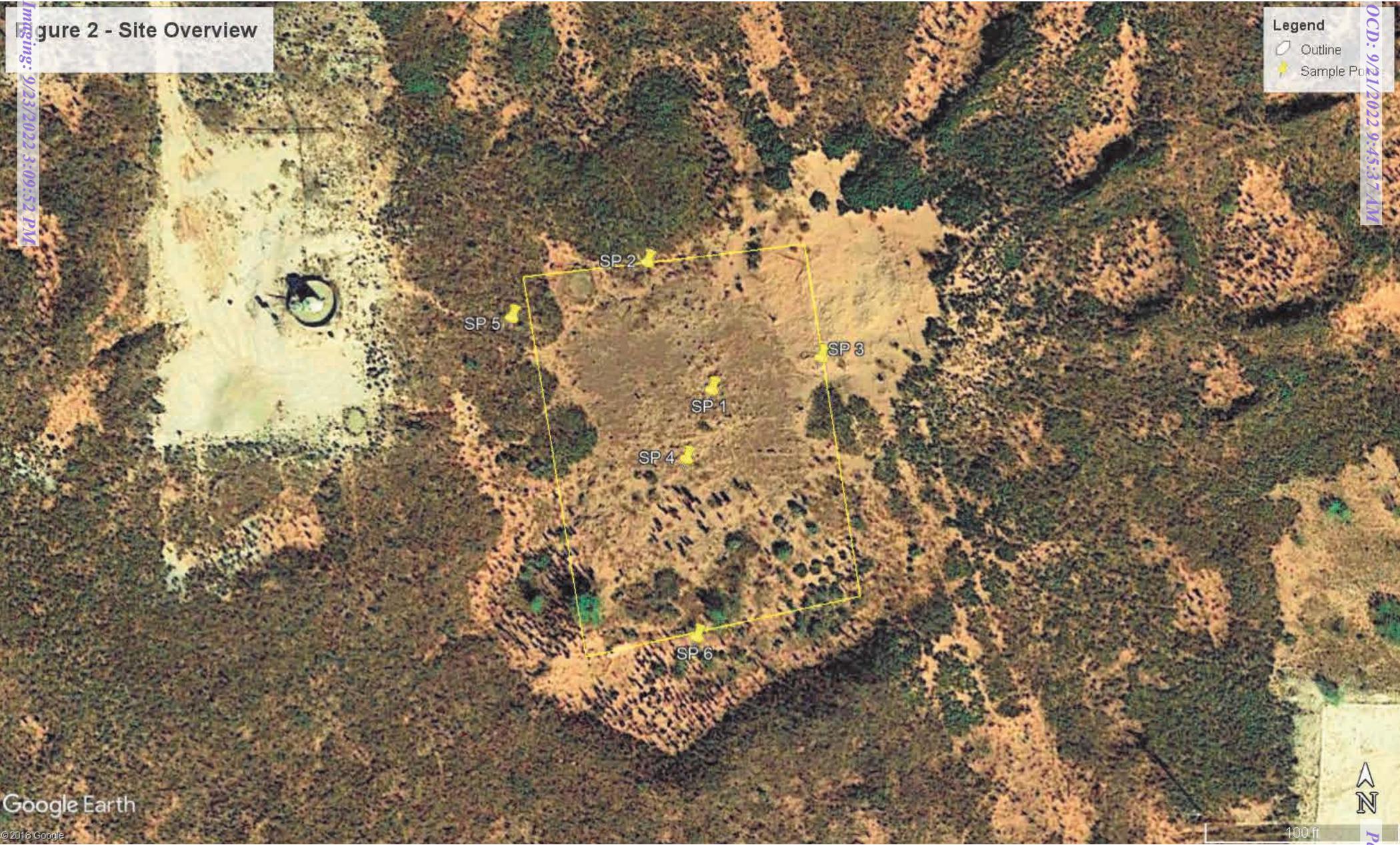
The restoration, reclamation and re-vegetation plan for this site are described in the Restoration Plan, attached as *Appendix D*.

A closure report will then be submitted summarizing all remedial and reclamation efforts completed.

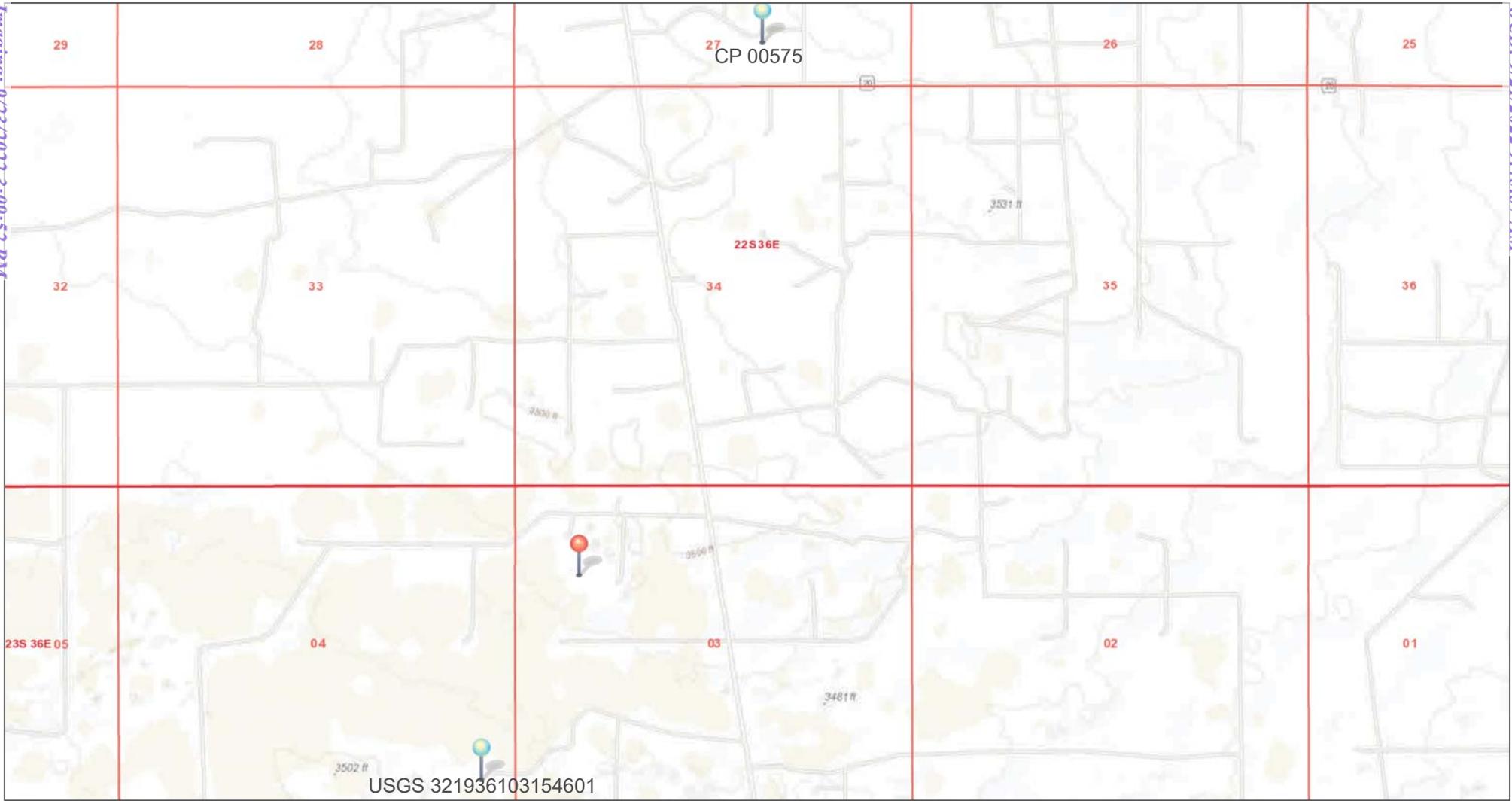
Figure 1 - Vicinity Map



Figure 2 - Site Overview

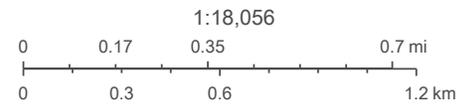


### Figure 3. Hydrology Map



5/29/2019, 7:58:52 PM

- Points
- Pit Site
- Well Site
- OCD Districts
- OCD District Offices
- PLSS First Division
- PLSS Townships
- OSE Water-bodies
- PLJV Probable Plays
- OSE Streams



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, OCD, BLM

### Figure 4 - Closure Sampling Map

Five-point composite will be taken on each half of the pit at surface and then at three-foot increments to 15' bgs

**Legend**

-  Approximate Pit Outline
-  Closure Sample Borehole - North Composite
-  Closure Sample Borehole - South Composite
-  Halfway Marker



Google Earth

© 2018 Google

100 ft



**APPENDIX A**  
**DELINEATION SUMMARY TABLE**

Delineation Samples									
Sample Date	Lab ID	Sample Point	Depth feet	Chloride	Benzene	BTEX	GRO	DRO	TPH
				Method 4500	8021B	8015M			
7/24/2018	H802019-01	1	1	32.0	<0.050	<0.300	<b>&lt;100</b>	<b>1720</b>	2377
7/24/2018	H802019-02	1	2	<16.0	<0.050	2.53	<b>162</b>	<b>10300</b>	<b>12672</b>
7/24/2018	H802019-03	1	3	<16.0	1.48	49.0	<b>2080</b>	<b>31300</b>	<b>39790</b>
7/24/2018	H802019-04	1	4	<16.0	<0.500	13.7	<b>758</b>	<b>21000</b>	<b>25858</b>
7/24/2018	H802019-05	1	5	<16.0	0.071	4.52	<b>105</b>	<b>2040</b>	2317
7/24/2018	H802019-06	1	6	<16.0	0.059	4.31	<b>94.4</b>	<b>1440</b>	1637
7/24/2018	H802019-07	1	7	<16.0	<1.00	21.2	<b>1230</b>	<b>28300</b>	<b>35220</b>
7/24/2018	H802019-08	1	8	<16.0	0.409	22.5	<b>450</b>	<b>9140</b>	<b>11120</b>
7/24/2018	H802019-09	1	9	<16.0	0.622	47.4	<b>981</b>	<b>11300</b>	<b>13791</b>
9/4/2018	H802495-01	1	10	<16.0	<0.500	16.1	<b>278</b>	<b>3750</b>	<b>4475</b>
9/4/2018	H802495-02	1	11	<16.0	<0.500	3.18	<b>195</b>	<b>4760</b>	<b>5557</b>
9/4/2018	H802495-03	1	12	<16.0	<0.500	7.21	<b>188</b>	<b>3000</b>	<b>3378</b>
9/4/2018	H802495-04	1	13	<16.0	<0.050	0.976	<b>37</b>	<b>1080</b>	1256
9/4/2018	H802495-05	1	14	48.0	<0.050	<0.300	<10.0	15.4	15.4
9/4/2018	H802495-06	1	15	<16.0	<0.050	<0.300	<10.0	33.7	33.7
9/4/2018	H802495-07	1	16	<16.0	<0.050	<0.300	<10.0	59.1	59.1
9/4/2018	H802495-08	1	17	16.0	<0.050	<0.300	<10.0	<10.0	<30
9/4/2018	H802495-09	1	18	16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-10	2	3	<16.0	<0.050	<0.300	<b>&lt;100</b>	<b>4440</b>	<b>5415</b>
7/24/2018	H802019-11	2	6	<16.0	<0.100	2.62	<b>264</b>	<b>11800</b>	<b>13844</b>
7/24/2018	H802019-12	2	9	<16.0	<0.050	<0.300	<b>&lt;100</b>	<b>6630</b>	<b>7588</b>
7/24/2018	H802019-13	3	3	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-14	3	6	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-15	4	3	<16.0	0.322	4.99	<b>&lt;200</b>	<b>29800</b>	<b>37240</b>
7/24/2018	H802019-16	4	6	16.0	0.163	4.99	<b>177</b>	<b>13900</b>	<b>16827</b>
7/24/2018	H802019-17	5	3	<16.0	<0.050	<0.300	<10.0	15.2	15.2
7/24/2018	H802019-18	5	6	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-19	6	3	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-20	6	5	<16.0	<0.050	<0.300	<10.0	<10.0	<30
<b>NMOC thresholds</b>				<b>600</b>	<b>10</b>	<b>50</b>	<b>1000</b>		<b>2500</b>

All samples are listed in (mg/kg)

**BOLD** values represent a result above the thresholds per NMAC 19.15.29.13

## APPENDIX B

### USGS GROUNDWATER DATA



USGS Home  
Contact USGS  
Search USGS

### National Water Information System: Web Interface

## USGS 321936103154601 23S.36E.04.42431

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'50", Longitude 103°15'47" NAD27

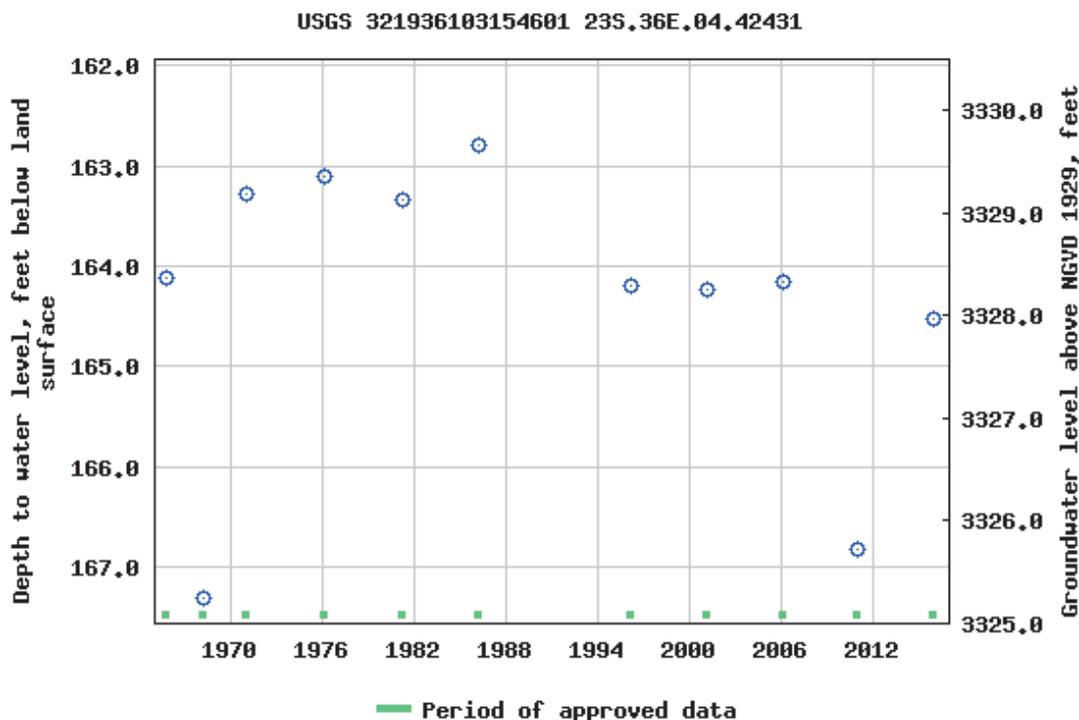
Land-surface elevation 3,492.50 feet above NGVD29

The depth of the well is 206 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

## APPENDIX C

### NM OSE WATER COLUMN/AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column			
<a href="#">CP 00786 POD1</a>	CP	LE	LE	1	3	1	03	23S	36E	663716	3579040*	236	200					
<a href="#">CP 01149 POD1</a>	CP	LE	LE					34	22S	36E	664281	3580034	912	25				
<a href="#">CP 01146 POD3</a>	CP	LE	LE					34	22S	36E	664045	3580932	1719	20				
<a href="#">CP 01146 POD1</a>	CP	LE	LE					34	22S	36E	664065	3580944	1732	101				
<a href="#">CP 01146 POD2</a>	CP	LE	LE					34	22S	36E	664041	3580954	1740	100				
<a href="#">CP 00392 POD1</a>	CP	LE	LE	1	1	3	35	22S	36E	665302	3580296*	1792	225					
<a href="#">CP 00575</a>	CP	LE	LE					3	4	27	22S	36E	664576	3581388*	2278	198	160	38

Average Depth to Water: **160 feet**  
 Minimum Depth: **160 feet**  
 Maximum Depth: **160 feet**

**Record Count:** 7

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 663866.19

**Northing (Y):** 3579222.42

**Radius:** 2500

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/22/19 2:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

**APPENDIX D**  
**RESTORATION PLAN**



## Restoration Plan

### Amendment to the Remediation Plan

Apache Corporation  
Sinclair B State #3 Pit  
30-025-09248  
Lea County, NM



**New Mexico State Land Office**  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240

**May 30, 2019**

RXSoil, Inc.

This document solely addresses the restoration, reclamation and re-vegetation of the site. A spill background, site characterization and remediation plan are all included in the Work Plan submitted by RXSoil.

After completion of the remedial phase of the project, two composite samples (one from the affected area and one from the background area) will be collected for agricultural analysis. These results will be provided to an agronomist so that proper soil amendments can be determined to provide for the landowner approved vegetative cover. The soil will be recontoured to a safe and stable condition that blends with the surrounding undisturbed area.

RXSoil's remediation of soils will adhere to the soil cover requirements, as no topsoil is being removed and all soils will be treated until all samples test below thresholds.

RXSoil plans to drill blow sand seed mixture into all disturbed areas following remediation. These areas will be carefully monitored following planting for vegetation growth. RXSoil will monitor the site annually and reseed as needed if revegetation is not successful. All parties will be updated on the growth.

RXSoil will treat noxious weeds if they become established within the area of remediation at the recommendation of the Authorized Officer for acceptable weed control methods.

RXSoil will look to the State Land Office to advise of any additional revegetation methods, objectives and seasons to plant.

A closure report will be submitted summarizing all remedial and reclamation efforts completed.

**APPENDIX E.1**  
**DELINEATION LAB REPORT**  
**REPORT ONE**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 30, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SINCLAIR B STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H802019-01)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	07/26/2018	ND	202	101	200	2.71		
<b>DRO &gt;C10-C28*</b>	<b>1720</b>	100	07/26/2018	ND	207	103	200	0.735		
<b>EXT DRO &gt;C28-C36</b>	<b>657</b>	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 190 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H802019-02)**

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>0.127</b>	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>1.40</b>	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>1.00</b>	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>2.53</b>	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>162</b>	100	07/26/2018	ND	202	101	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>10300</b>	100	07/26/2018	ND	207	103	200	0.735	
<b>EXT DRO &gt;C28-C36</b>	<b>2210</b>	100	07/26/2018	ND					

Surrogate: 1-Chlorooctane 129 % 41-142

Surrogate: 1-Chlorooctadecane 507 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3' (H802019-03)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.48</b>	1.00	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<1.00	1.00	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>17.2</b>	1.00	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>30.3</b>	3.00	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>49.0</b>	6.00	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2080</b>	200	07/26/2018	ND	202	101	200	2.71		
<b>DRO &gt;C10-C28*</b>	<b>31300</b>	200	07/26/2018	ND	207	103	200	0.735		
<b>EXT DRO &gt;C28-C36</b>	<b>6410</b>	200	07/26/2018	ND						

Surrogate: 1-Chlorooctane 230 % 41-142

Surrogate: 1-Chlorooctadecane 849 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 4' (H802019-04)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.500	0.500	07/27/2018	ND	1.96	97.9	2.00	2.55		
<b>Ethylbenzene*</b>	<b>5.97</b>	0.500	07/27/2018	ND	1.91	95.4	2.00	4.16		
<b>Total Xylenes*</b>	<b>7.68</b>	1.50	07/27/2018	ND	5.90	98.3	6.00	4.45		
<b>Total BTEX</b>	<b>13.7</b>	3.00	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>758</b>	200	07/26/2018	ND	202	101	200	2.71			
<b>DRO &gt;C10-C28*</b>	<b>21000</b>	200	07/26/2018	ND	207	103	200	0.735			
<b>EXT DRO &gt;C28-C36</b>	<b>4100</b>	200	07/26/2018	ND							

Surrogate: 1-Chlorooctane 168 % 41-142

Surrogate: 1-Chlorooctadecane 633 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5' (H802019-05)**

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.071</b>	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>2.38</b>	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>2.07</b>	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>4.52</b>	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>105</b>	100	07/26/2018	ND	202	101	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>2040</b>	100	07/26/2018	ND	207	103	200	0.735	
<b>EXT DRO &gt;C28-C36</b>	<b>172</b>	100	07/26/2018	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 175 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 6' (H802019-06)**

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.059</b>	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>0.079</b>	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>1.57</b>	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>2.61</b>	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>4.31</b>	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>94.4</b>	50.0	07/26/2018	ND	202	101	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>1440</b>	50.0	07/26/2018	ND	207	103	200	0.735	
<b>EXT DRO &gt;C28-C36</b>	<b>103</b>	50.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 142 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 7' (H802019-07)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<1.00	1.00	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<b>8.49</b>	1.00	07/27/2018	ND	1.91	95.4	2.00	4.16		
<b>Total Xylenes*</b>	<b>12.7</b>	3.00	07/27/2018	ND	5.90	98.3	6.00	4.45		
<b>Total BTEX</b>	<b>21.2</b>	6.00	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>1230</b>	200	07/26/2018	ND	202	101	200	2.71			
<b>DRO &gt;C10-C28*</b>	<b>28300</b>	200	07/26/2018	ND	207	103	200	0.735			
<b>EXT DRO &gt;C28-C36</b>	<b>5690</b>	200	07/26/2018	ND							

Surrogate: 1-Chlorooctane 198 % 41-142

Surrogate: 1-Chlorooctadecane 890 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 8' (H802019-08)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.409</b>	0.200	07/27/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>0.582</b>	0.200	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>8.54</b>	0.200	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>13.0</b>	0.600	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>22.5</b>	1.20	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>450</b>	100	07/26/2018	ND	202	101	200	2.71		
<b>DRO &gt;C10-C28*</b>	<b>9140</b>	100	07/26/2018	ND	207	103	200	0.735		
<b>EXT DRO &gt;C28-C36</b>	<b>1530</b>	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 147 % 41-142

Surrogate: 1-Chlorooctadecane 458 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 9' (H802019-09)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.622</b>	0.500	07/27/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>1.04</b>	0.500	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>12.9</b>	0.500	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>32.8</b>	1.50	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>47.4</b>	3.00	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>981</b>	100	07/26/2018	ND	202	101	200	2.71		
<b>DRO &gt;C10-C28*</b>	<b>11300</b>	100	07/26/2018	ND	207	103	200	0.735		
<b>EXT DRO &gt;C28-C36</b>	<b>1510</b>	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 195 % 41-142

Surrogate: 1-Chlorooctadecane 447 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 3' (H802019-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<100	100	07/26/2018	ND	202	101	200	2.71			
<b>DRO &gt;C10-C28*</b>	<b>4440</b>	100	07/26/2018	ND	207	103	200	0.735			
<b>EXT DRO &gt;C28-C36</b>	<b>975</b>	100	07/26/2018	ND							

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 237 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 6' (H802019-11)**

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/27/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>0.202</b>	0.100	07/27/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>1.12</b>	0.100	07/27/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>1.29</b>	0.300	07/27/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>2.62</b>	0.600	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>264</b>	100	07/26/2018	ND	202	101	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>11800</b>	100	07/26/2018	ND	207	103	200	0.735	
<b>EXT DRO &gt;C28-C36</b>	<b>1780</b>	100	07/26/2018	ND					

Surrogate: 1-Chlorooctane 140 % 41-142

Surrogate: 1-Chlorooctadecane 556 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 9' (H802019-12)**

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 178 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	07/26/2018	ND	202	101	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>6630</b>	100	07/26/2018	ND	207	103	200	0.735	
<b>EXT DRO &gt;C28-C36</b>	<b>958</b>	100	07/26/2018	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 319 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 3' (H802019-13)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/28/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/28/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/28/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 6' (H802019-14)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/28/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/28/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/28/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	202	101	200	2.71		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 99.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 3' (H802019-15)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.322</b>	0.100	07/28/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>0.177</b>	0.100	07/28/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>2.40</b>	0.100	07/28/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>2.08</b>	0.300	07/28/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>4.99</b>	0.600	07/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<200	200	07/27/2018	ND	206	103	200	0.519		
<b>DRO &gt;C10-C28*</b>	<b>29800</b>	200	07/27/2018	ND	216	108	200	2.27		
<b>EXT DRO &gt;C28-C36</b>	<b>7440</b>	200	07/27/2018	ND						

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 1210 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 6' (H802019-16)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.163</b>	0.100	07/28/2018	ND	1.98	98.9	2.00	2.26	
<b>Toluene*</b>	<b>0.111</b>	0.100	07/28/2018	ND	1.96	97.9	2.00	2.55	
<b>Ethylbenzene*</b>	<b>2.26</b>	0.100	07/28/2018	ND	1.91	95.4	2.00	4.16	
<b>Total Xylenes*</b>	<b>2.45</b>	0.300	07/28/2018	ND	5.90	98.3	6.00	4.45	
<b>Total BTEX</b>	<b>4.99</b>	0.600	07/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>177</b>	100	07/27/2018	ND	206	103	200	0.519		
<b>DRO &gt;C10-C28*</b>	<b>13900</b>	100	07/27/2018	ND	216	108	200	2.27		
<b>EXT DRO &gt;C28-C36</b>	<b>2750</b>	100	07/27/2018	ND						

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 665 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 5 @ 3' (H802019-17)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	206	103	200	0.519		
<b>DRO &gt;C10-C28*</b>	<b>15.2</b>	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 5 @ 6' (H802019-18)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 6 @ 3' (H802019-19)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 6 @ 5' (H802019-20)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Apache</u>	<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: <u>Bruce Baker</u>	P.O. #:											
Address:	Company:											
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>	Attn:											
Phone #: Fax #:	Address:											
Project #: Project Owner:	City:											
Project Name:	State: Zip:											
Project Location: <u>Sinclair B state #3</u>	Phone #:											
Sampler Name: <u>Bruce Baker</u>	Fax #:											

Lab I.D.	Sample I.D.	GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	C1-	Ext. TPH	BTEX
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<u>H802019</u>																
1	SP1 @ 1'	G 1			✓			✓			7-24-18	10:05	✓	✓	✓	
2	SP1 @ 2'	G 1			✓			✓			11	10:10	✓	✓	✓	
3	SP1 @ 3'	G 1			✓			✓			11	10:15	✓	✓	✓	
4	SP1 @ 4'	G 1			✓			✓			11	10:20	✓	✓	✓	
5	SP1 @ 5'	G 1			✓			✓			11	10:25	✓	✓	✓	
6	SP1 @ 6'	G 1			✓			✓			11	10:30	✓	✓	✓	
7	SP1 @ 7'	G 1			✓			✓			11	10:35	✓	✓	✓	
8	SP1 @ 8'	G 1			✓			✓			11	10:40	✓	✓	✓	
9	SP1 @ 9'	G 1			✓			✓			11	10:45	✓	✓	✓	
10	SP2 @ 3'	G 1			✓			✓			11	11:35	✓	✓	✓	

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Relinquished By: <u>Bruce Baker</u>	Date: <u>7-24-18</u>	Received By: <u>Jamara Edley</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>3:44pm</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>Email Results</u>	
	Time:			
Delivered By: (Circle One) <u>5.95i</u>	Sample Condition	CHECKED BY: (Initials) <u>TD. #15</u>		
<u>5</u> PS - Bus - Other:	Cool Intact			
<u>Corrected 5.90i</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



2

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <b>Apache</b>	<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: <b>Bruce Baker</b>	P.O. #:											
Address:	Company:											
City: State: Zip:	Attn:											
Phone #: Fax #:	Address:											
Project #: Project Owner:	City:											
Project Name:	State: Zip:											
Project Location: <b>Sinclair B State #3</b>	Phone #:											
Sampler Name: <b>Bruce Baker</b>	Fax #:											

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		CI	EXT. TPH	BTEX
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
<b>H8000A</b>															
	11 SP 2 @ 6'	G	1			✓			✓		11-24-18	11:40am	✓	✓	✓
	12 SP 2 @ 9'	G	1			✓			✓		11	11:45am	✓	✓	✓
	13 SP 3 @ 3'	G	1			✓			✓		11	12:05pm	✓	✓	✓
	14 SP 3 @ 6'	G	1			✓			✓		11	12:10pm	✓	✓	✓
	15 SP 4 @ 3'	G	1			✓			✓		11	12:20pm	✓	✓	✓
	16 SP 4 @ 6'	G	1			✓			✓		11	12:25pm	✓	✓	✓
	17 SP 5 @ 3'	G	1			✓			✓		11	1:10pm	✓	✓	✓
	18 SP 5 @ 6'	G	1			✓			✓		11	1:15pm	✓	✓	✓
	19 SP 6 @ 3'	G	1			✓			✓		11	1:50pm	✓	✓	✓
	20 SP 6 @ 5'	G	1			✓			✓		11	1:55pm	✓	✓	✓

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Relinquished By: <b>Bruce Baker</b>	Date: <b>11-24-18</b>	Received By: <b>Jamora Oldaker</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <b>3:53</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <b>Email Results</b>	
Delivered By: (Circle One) <b>5.95°C</b>	Sample Condition	CHECKED BY: (Initials) <b>TO. #15</b>		
<b>58</b> UPS - Bus - Other: <b>Corrected 5.90°C</b>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

**APPENDIX E.2**  
**DELINEATION LAB REPORT**  
**REPORT TWO**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 10, 2018

BRUCE BAKER  
APACHE CORP - HOBBS  
2350 W. MARLAND BLVD.  
HOBBS, NM 88240

RE: SINCLAIR B STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 09/04/18 15:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 10' (H802495-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/05/2018	ND	2.11	106	2.00	0.309	
Toluene*	<0.500	0.500	09/05/2018	ND	2.07	104	2.00	0.461	
<b>Ethylbenzene*</b>	<b>5.35</b>	0.500	09/05/2018	ND	2.04	102	2.00	0.412	
<b>Total Xylenes*</b>	<b>10.8</b>	1.50	09/05/2018	ND	5.84	97.4	6.00	0.0760	
<b>Total BTEX</b>	<b>16.1</b>	3.00	09/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>278</b>	50.0	09/05/2018	ND	201	101	200	2.18		
<b>DRO &gt;C10-C28*</b>	<b>3750</b>	50.0	09/05/2018	ND	198	99.1	200	2.38		
<b>EXT DRO &gt;C28-C36</b>	<b>447</b>	50.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 219 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 11' (H802495-02)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/05/2018	ND	2.10	105	2.00	3.69	
Toluene*	<0.500	0.500	09/05/2018	ND	1.98	99.1	2.00	3.95	
Ethylbenzene*	<b>1.14</b>	0.500	09/05/2018	ND	1.97	98.7	2.00	3.69	
<b>Total Xylenes*</b>	<b>2.04</b>	1.50	09/05/2018	ND	6.00	100	6.00	3.58	
<b>Total BTEX</b>	<b>3.18</b>	3.00	09/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>195</b>	50.0	09/05/2018	ND	201	101	200	2.18		
<b>DRO &gt;C10-C28*</b>	<b>4760</b>	50.0	09/05/2018	ND	198	99.1	200	2.38		
<b>EXT DRO &gt;C28-C36</b>	<b>602</b>	50.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 142 % 41-142

Surrogate: 1-Chlorooctadecane 286 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 12' (H802495-03)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/05/2018	ND	2.10	105	2.00	3.69	
Toluene*	<0.500	0.500	09/05/2018	ND	1.98	99.1	2.00	3.95	
<b>Ethylbenzene*</b>	<b>2.28</b>	0.500	09/05/2018	ND	1.97	98.7	2.00	3.69	
<b>Total Xylenes*</b>	<b>4.93</b>	1.50	09/05/2018	ND	6.00	100	6.00	3.58	
<b>Total BTEX</b>	<b>7.21</b>	3.00	09/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>188</b>	50.0	09/05/2018	ND	201	101	200	2.18		
<b>DRO &gt;C10-C28*</b>	<b>3000</b>	50.0	09/05/2018	ND	198	99.1	200	2.38		
<b>EXT DRO &gt;C28-C36</b>	<b>190</b>	50.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 132 % 41-142

Surrogate: 1-Chlorooctadecane 214 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 13' (H802495-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2018	ND	2.10	105	2.00	3.69	
Toluene*	<0.050	0.050	09/05/2018	ND	1.98	99.1	2.00	3.95	
<b>Ethylbenzene*</b>	<b>0.293</b>	0.050	09/05/2018	ND	1.97	98.7	2.00	3.69	
<b>Total Xylenes*</b>	<b>0.683</b>	0.150	09/05/2018	ND	6.00	100	6.00	3.58	
<b>Total BTEX</b>	<b>0.976</b>	0.300	09/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>37.0</b>	10.0	09/05/2018	ND	201	101	200	2.18	
<b>DRO &gt;C10-C28*</b>	<b>1080</b>	10.0	09/05/2018	ND	198	99.1	200	2.38	
<b>EXT DRO &gt;C28-C36</b>	<b>139</b>	10.0	09/05/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 14' (H802495-05)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2018	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	09/06/2018	ND	1.98	99.1	2.00	3.95		
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.97	98.7	2.00	3.69		
Total Xylenes*	<0.150	0.150	09/06/2018	ND	6.00	100	6.00	3.58		
Total BTEX	<0.300	0.300	09/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>48.0</b>	16.0	09/05/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/05/2018	ND	201	101	200	2.18		
<b>DRO &gt;C10-C28*</b>	<b>15.4</b>	10.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 72.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 15' (H802495-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2018	ND	2.10	105	2.00	3.69	
Toluene*	<0.050	0.050	09/06/2018	ND	1.98	99.1	2.00	3.95	
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.97	98.7	2.00	3.69	
Total Xylenes*	<0.150	0.150	09/06/2018	ND	6.00	100	6.00	3.58	
Total BTEX	<0.300	0.300	09/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2018	ND	201	101	200	2.18	
<b>DRO &gt;C10-C28*</b>	<b>33.7</b>	10.0	09/05/2018	ND	198	99.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND					

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 16' (H802495-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2018	ND	1.91	95.5	2.00	1.17	
Toluene*	<0.050	0.050	09/06/2018	ND	1.81	90.4	2.00	1.11	
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.80	90.2	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/06/2018	ND	5.49	91.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2018	ND	201	101	200	2.18	
<b>DRO &gt;C10-C28*</b>	<b>59.1</b>	10.0	09/05/2018	ND	198	99.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 17' (H802495-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2018	ND	1.91	95.5	2.00	1.17	
Toluene*	<0.050	0.050	09/06/2018	ND	1.81	90.4	2.00	1.11	
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.80	90.2	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/06/2018	ND	5.49	91.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2018	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	09/05/2018	ND	198	99.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND					

Surrogate: 1-Chlorooctane 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

APACHE CORP - HOBBS  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 18' (H802495-09)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2018	ND	1.91	95.5	2.00	1.17	
Toluene*	<0.050	0.050	09/06/2018	ND	1.81	90.4	2.00	1.11	
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.80	90.2	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/06/2018	ND	5.49	91.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2018	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	09/05/2018	ND	198	99.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 99.3 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## APPENDIX F

### US FISH AND WILDLIFE WETLAND IDENTIFICATION



# U.S. Fish and Wildlife Service National Wetlands Inventory

## US Fish and Wildlife Wetland Identification



May 29, 2019

### Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

## APPENDIX G

### NM EMNRD-MINING AND MINERAL DIVISION – ACTIVE MINE MAP



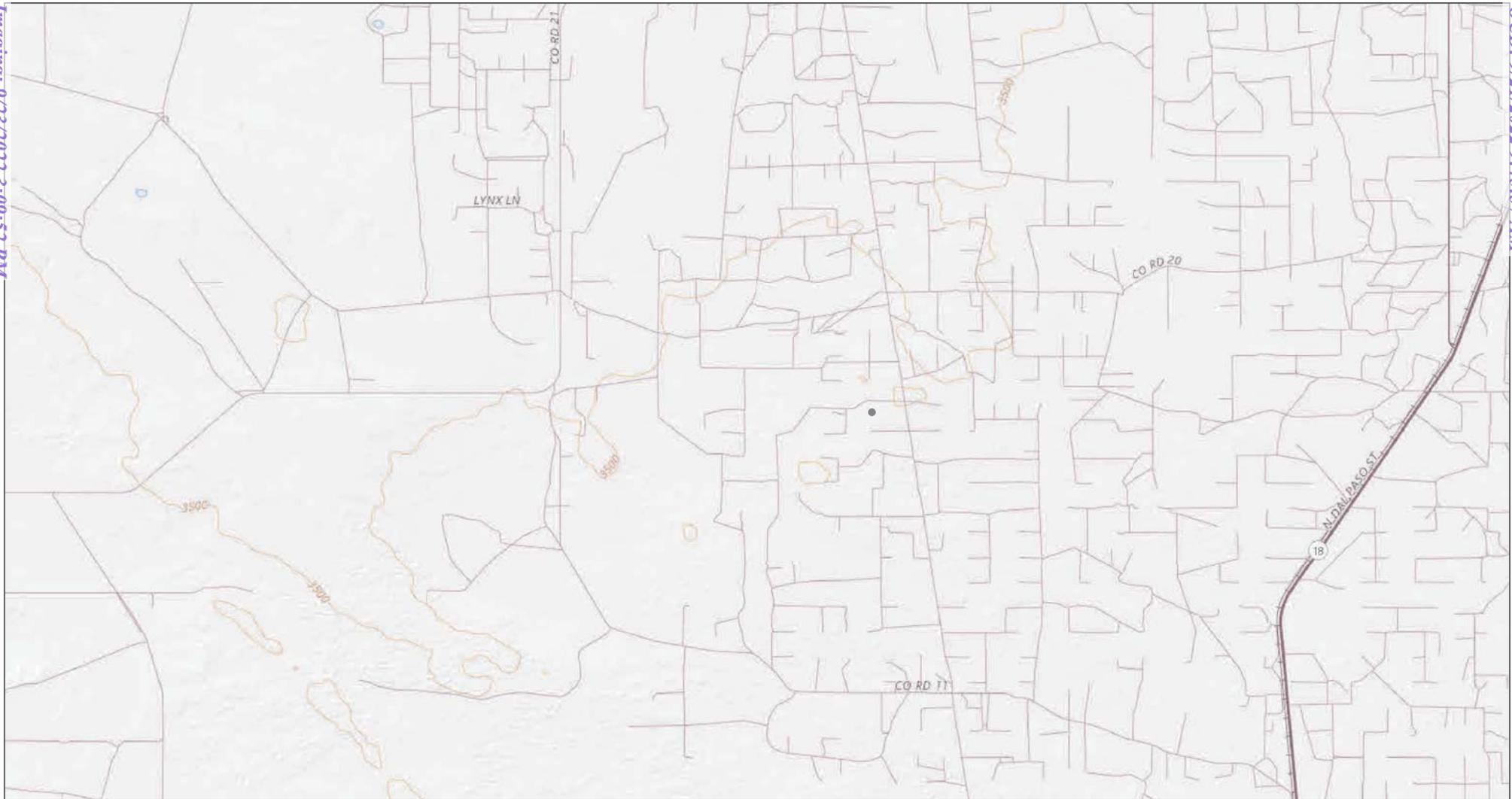
**APPENDIX H**

**NM BUREAU OF GEOLOGY & MINERAL RESOURCES – MAP**

# NMBGMR Map

Released to Imaging: 9/23/2022 3:09:52 PM

Received by OCD: 9/21/2022 9:45:37 AM

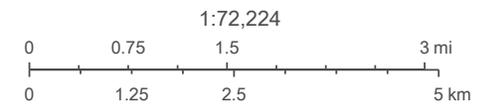


5/30/2019, 10:27:37 AM

Quaternary Faults

- 2 = Post-glacial (<15,000 years), fault landforms are more continuous than discontinuous and mapping is accurate
- - - 2 = Post-glacial (<15,000 years), fault landforms are more discontinuous than continuous and mapping is accurate
- ⋯ 2 = Post-glacial (<15,000 years), location of fault is inferred, buried
- 3 = Late Quaternary (<130,000 years), fault landforms are more continuous than discontinuous and mapping is accurate
- - - 3 = Late Quaternary (<130,000 years), fault landforms are more discontinuous than continuous and mapping is accurate

- - - 3 = Late Quaternary (<130,000 years), location of fault is inferred, buried



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS

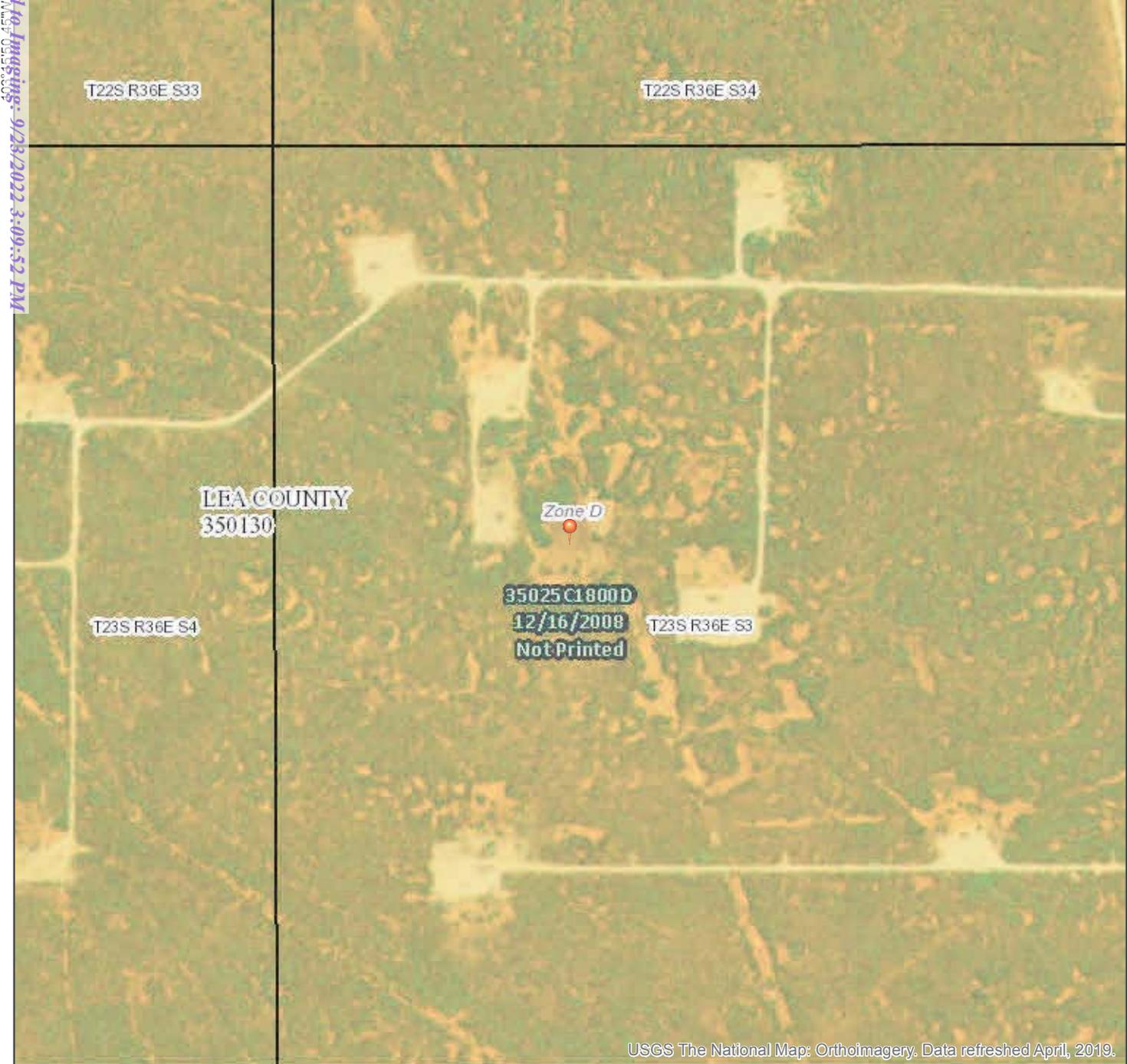
**APPENDIX I**

**FEMA MAP**

# National Flood Hazard Layer FIRMette



20°32.02"N



### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **5/29/2019 at 7:12:29 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released for Imaging: 9/28/2022 3:09:52 PM  
NAS7 05:51:30P

Received by OCD: 9/21/2022 9:45:37 AM

Page 79 of 117

**END OF APPENDIX C**

**APPENDIX D**

**PROOF OF NOTIFICATION AND COPY OF LETTER**

June 3, 2022

State Land Office  
Attn: Ryan Mann  
914 N Linam St.  
Hobbs, NM 88240

Re: Notification of Closure Operations  
Apache Corporation Sinclair B State No. 003  
30-025-09248  
32.33799°, -103.25886°

To Mr. Mann:

RXSoil, Inc. is submitting this, per NMAC 19.15.17.13.E, to notify the State Land Office that we will begin treatment of the non-permitted historical pit. Due to a lack of growth, an initial delineation was performed, and contamination was discovered. A non-invasive method of bioremediation will be utilized to minimize disruption to adjacent land and property.

Please don't hesitate to reach out to discuss and I can provide additional details.

Sincerely,



Zach Robbins  
Technical and Engineering Analyst  
RXSoil, Inc.  
zach.robbins@rxsoil.solutions  
(210) 400-7645

# USPS Tracking®

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Your item was picked up at the post office at 12:21 pm on June 10, 2022 in HOBBS, NM 88240.

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## **Delivered, Individual Picked Up at Post Office**

June 10, 2022 at 12:21 pm  
HOBBS, NM 88240

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**Tracking History**



**June 10, 2022, 12:21 pm**

Delivered, Individual Picked Up at Post Office  
HOBBS, NM 88240

Your item was picked up at the post office at 12:21 pm on June 10, 2022 in HOBBS, NM 88240.

---

**June 9, 2022, 3:11 pm**

Notice Left (No Authorized Recipient Available)  
HOBBS, NM 88240

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**June 8, 2022, 10:36 pm**

Departed USPS Regional Facility

LUBBOCK TX DISTRIBUTION CENTER

June 8, 2022, 7:27 am

Arrived at USPS Regional Destination Facility

LUBBOCK TX DISTRIBUTION CENTER

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
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**OFFICIAL USE**

Hobbs, NM 88240

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.58

**Total Postage and Fees \$4.33**

Postmark Here 0139 77

06/03/2022

Sent To: State Land Office  
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 City, State, ZIP+4® Hobbs, NM 88240

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Estimated Delivery Date	Tue 06/07/2022	\$3.75
Certified Mail®		
Tracking #:	70210350000136350691	
Affixed Postage		-\$0.58
Affixed Amount: \$0.58		\$3.75
<b>Total</b>		
US Flag #10 Env	1	\$0.73
		\$0.73
<b>Grand Total:</b>		\$4.48

USPS Tracking Plus®



Product Information



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**APPENDIX E.1**

**REMEDICATION LAB REPORT  
REPORT ONE**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 20, 2022

MATTHEW LONGCRIER  
RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH, TX 76102

RE: SINCLAIR B

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 14:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 1 (H223096-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986		
<b>Toluene*</b>	<b>0.083</b>	0.050	07/19/2022	ND	2.01	101	2.00	4.23		
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50		
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872		
Total BTEX	<0.300	0.300	07/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53			
<b>DRO &gt;C10-C28*</b>	<b>2350</b>	10.0	07/19/2022	ND	192	96.1	200	1.72			
<b>EXT DRO &gt;C28-C36</b>	<b>1040</b>	10.0	07/19/2022	ND							

Surrogate: 1-Chlorooctane 90.8 % 43-149

Surrogate: 1-Chlorooctadecane 278 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 2 (H223096-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
<b>Toluene*</b>	<b>0.056</b>	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>2050</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>630</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 92.8 % 43-149

Surrogate: 1-Chlorooctadecane 185 % 42.5-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 3 (H223096-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
<b>Toluene*</b>	<b>0.053</b>	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>1080</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>513</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 98.5 % 43-149

Surrogate: 1-Chlorooctadecane 191 % 42.5-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 4 (H223096-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
Toluene*	<0.050	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53	
<b>DRO &gt;C10-C28*</b>	<b>818</b>	10.0	07/19/2022	ND	192	96.1	200	1.72	
<b>EXT DRO &gt;C28-C36</b>	<b>423</b>	10.0	07/19/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 43-149

Surrogate: 1-Chlorooctadecane 161 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 5 (H223096-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
<b>Toluene*</b>	<b>0.056</b>	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
<b>Ethylbenzene*</b>	<b>0.361</b>	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
<b>Total Xylenes*</b>	<b>0.734</b>	0.150	07/19/2022	ND	6.06	101	6.00	0.872	GC-NC1
<b>Total BTEX</b>	<b>1.15</b>	0.300	07/19/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>46.0</b>	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>1750</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>580</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 118 % 43-149

Surrogate: 1-Chlorooctadecane 236 % 42.5-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 6 (H223096-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986		
<b>Toluene*</b>	<b>0.073</b>	0.050	07/19/2022	ND	2.01	101	2.00	4.23		
<b>Ethylbenzene*</b>	<b>1.58</b>	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50		
<b>Total Xylenes*</b>	<b>2.15</b>	0.150	07/19/2022	ND	6.06	101	6.00	0.872	GC-NC1	
<b>Total BTEX</b>	<b>3.80</b>	0.300	07/19/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 177 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>130</b>	100	07/18/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>4210</b>	100	07/18/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>944</b>	100	07/18/2022	ND						

Surrogate: 1-Chlorooctane 120 % 43-149

Surrogate: 1-Chlorooctadecane 180 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 1 (H223096-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
<b>Toluene*</b>	<b>0.161</b>	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>3510</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>1070</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 108 % 43-149

Surrogate: 1-Chlorooctadecane 190 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 2 (H223096-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
Toluene*	<0.050	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>3100</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>1190</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 212 % 43-149

Surrogate: 1-Chlorooctadecane 395 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 3 (H223096-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
Toluene*	<0.050	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>2310</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>821</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 113 % 43-149

Surrogate: 1-Chlorooctadecane 254 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 4 (H223096-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	1.98	99.2	2.00	0.986	
Toluene*	<0.050	0.050	07/19/2022	ND	2.01	101	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	1.92	96.2	2.00	1.50	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.06	101	6.00	0.872	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	196	98.0	200	1.53		
<b>DRO &gt;C10-C28*</b>	<b>670</b>	10.0	07/19/2022	ND	192	96.1	200	1.72		
<b>EXT DRO &gt;C28-C36</b>	<b>306</b>	10.0	07/19/2022	ND						

Surrogate: 1-Chlorooctane 99.2 % 43-149

Surrogate: 1-Chlorooctadecane 168 % 42.5-161

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache PX Soil  
 Project Manager: Matthew Longmier  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:  
 Project #: Project Owner:  
 Project Name: Sinclair B  
 Project Location: Eunice  
 Sampler Name: Tristan Turley

P.O. #:  
 Company:  
 Attn:  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HA33094	A1					X				7/14/22	8L	TPH
	A2											
	A3											
	A4											
	A5											
	A6											
	B1											
	B2											
	B3											
	B4											

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Relinquished By: *Tristan Turley*  
 Date: 7/14/22  
 Time: 6:41  
 Received By: *Shedaigney*  
 Date: 7/15/22  
 Time: 1457

Delivered By: (Circle One)  
 Observed Temp. °C: -7.0°C  
 Corrected Temp. °C: -7.0°C  
 Sample Condition: Cool Intact  Yes  No  
 Checked By: *SR*  
 Turnaround Time: Standard  Rush   
 Thermometer ID #113  
 Correction Factor: ~~0.0°C~~ -0.10°C  
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  Yes  No  
 Observed Temp. °C: Corrected Temp. °C:

† Cardinal cannot accept verbal changes. Please email changes to celej.keene@cardinallabsnm.com

**APPENDIX E.2**  
**REMEDIATION LAB REPORT**  
**REPORT TWO**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 29, 2022

MATTHEW LONGCRIER  
RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH, TX 76102

RE: SINCLAIR B

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 1 (H223914-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63	
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82	
Total BTEX	<0.300	0.300	08/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
<b>DRO &gt;C10-C28*</b>	<b>723</b>	10.0	08/26/2022	ND	212	106	200	5.15	
<b>EXT DRO &gt;C28-C36</b>	<b>350</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 2 (H223914-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63	
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82	
Total BTEX	<0.300	0.300	08/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	204	102	200	0.986	
<b>DRO &gt;C10-C28*</b>	<b>916</b>	10.0	08/26/2022	ND	212	106	200	5.15	
<b>EXT DRO &gt;C28-C36</b>	<b>510</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 70.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 3 (H223914-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	7.63	
Toluene*	<0.050	0.050	08/25/2022	ND	2.01	100	2.00	6.96	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.95	97.5	2.00	7.72	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.08	101	6.00	7.82	
Total BTEX	<0.300	0.300	08/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	195	97.5	200	2.22	
<b>DRO &gt;C10-C28*</b>	<b>297</b>	10.0	08/26/2022	ND	183	91.3	200	3.66	
<b>EXT DRO &gt;C28-C36</b>	<b>144</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 5 (H223914-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2022	ND	2.04	102	2.00	7.63	
Toluene*	<0.050	0.050	08/26/2022	ND	2.01	100	2.00	6.96	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	1.95	97.5	2.00	7.72	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.08	101	6.00	7.82	
Total BTEX	<0.300	0.300	08/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	206	103	200	4.27	
<b>DRO &gt;C10-C28*</b>	<b>252</b>	10.0	08/25/2022	ND	215	107	200	1.24	
<b>EXT DRO &gt;C28-C36</b>	<b>78.9</b>	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: A 6 (H223914-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2022	ND	2.04	102	2.00	7.63	
Toluene*	<0.050	0.050	08/26/2022	ND	2.01	100	2.00	6.96	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	1.95	97.5	2.00	7.72	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.08	101	6.00	7.82	
Total BTEX	<0.300	0.300	08/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	206	103	200	4.27	
<b>DRO &gt;C10-C28*</b>	<b>87.9</b>	10.0	08/25/2022	ND	215	107	200	1.24	
<b>EXT DRO &gt;C28-C36</b>	<b>14.1</b>	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 1 (H223914-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2022	ND	2.04	102	2.00	7.63	
Toluene*	<0.050	0.050	08/26/2022	ND	2.01	100	2.00	6.96	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	1.95	97.5	2.00	7.72	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.08	101	6.00	7.82	
Total BTEX	<0.300	0.300	08/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2022	ND	206	103	200	4.27	
<b>DRO &gt;C10-C28*</b>	<b>435</b>	10.0	08/26/2022	ND	215	107	200	1.24	
<b>EXT DRO &gt;C28-C36</b>	<b>231</b>	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 2 (H223914-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2022	ND	2.15	107	2.00	4.03		
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28		
Total BTEX	<0.300	0.300	08/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	206	103	200	4.27		
<b>DRO &gt;C10-C28*</b>	<b>161</b>	10.0	08/25/2022	ND	215	107	200	1.24		
<b>EXT DRO &gt;C28-C36</b>	<b>76.2</b>	10.0	08/25/2022	ND						

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 140 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 3 (H223914-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEX	<0.300	0.300	08/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	206	103	200	4.27	
<b>DRO &gt;C10-C28*</b>	<b>913</b>	10.0	08/25/2022	ND	215	107	200	1.24	
<b>EXT DRO &gt;C28-C36</b>	<b>309</b>	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 158 % 46.3-178

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	SINCLAIR B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE NM		

**Sample ID: B 5 (H223914-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEX	<0.300	0.300	08/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	206	103	200	4.27	
<b>DRO &gt;C10-C28*</b>	<b>135</b>	10.0	08/25/2022	ND	215	107	200	1.24	
<b>EXT DRO &gt;C28-C36</b>	<b>34.9</b>	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 08/25/2022  
 Reported: 08/29/2022  
 Project Name: SINCLAIR B  
 Project Number: NONE GIVEN  
 Project Location: APACHE - EUNICE NM

Sampling Date: 08/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 6 (H223914-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEX	<0.300	0.300	08/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	206	103	200	4.27	
<b>DRO &gt;C10-C28*</b>	<b>118</b>	10.0	08/25/2022	ND	215	107	200	1.24	
<b>EXT DRO &gt;C28-C36</b>	<b>24.2</b>	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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**Notes and Definitions**

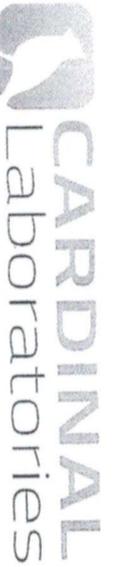
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>QXSOIL</b>		P.O. #:	
Project Manager: <b>Mathew Longmier</b>		Company:	
Address:		Attn:	
City:		Address:	
State: Zip:		City:	
Phone #: Fax #:		State: Zip:	
Project #: Project Owner: <b>Apoche</b>		Phone #:	
Project Name: <b>Silvix B</b>		Fax #:	
Project Location: <b>Emice NM</b>			
Sampler Name: <b>Jason Cove</b>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	SAMPLING	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H223914	A1					X				8/23	2:00pm	X	TPH
	A2												
	A3												
	A4												
	A6												
	B1												
	B2												
	B3												
	B5												
	B6												

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Relinquished By: <i>[Signature]</i>	Date: <b>8-25-22</b>	Received By: <i>[Signature]</i>	Date: <b>8/25/22</b>
Relinquished By: <i>[Signature]</i>	Date: <b>11/10</b>	Received By: <i>[Signature]</i>	Date: <b>8/25/22</b>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>		<input checked="" type="checkbox"/>	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
		No <input type="checkbox"/> Yes <input type="checkbox"/>				No <input type="checkbox"/> Yes <input type="checkbox"/>	Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celeykeene@cardinallabsnm.com

**APPENDIX F**  
**RESTORATION PLAN**



## **Restoration Plan**

### **Amendment to the Remediation Plan**

Apache Corporation  
Sinclair B State #3 Pit  
30-025-09248  
Lea County, NM



**New Mexico State Land Office**  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240

**April 4, 2019**

This document solely addresses the restoration, reclamation and re-vegetation of the site. A spill background, site characterization and remediation plan are all included in the Work Plan submitted by RXSoil.

After completion of the remedial phase of the project, two composite samples (one from the affected area and one from the background area) will be collected for agricultural analysis. These results will be provided to an agronomist so that proper soil amendments can be determined to provide for the landowner approved vegetative cover. The soil will be recontoured to match the surrounding areas.

RXSoil plans to drill blow sand seed mixture into all disturbed areas following remediation. These areas will be carefully monitored following planting for vegetation growth. RXSoil will monitor the site annually and reseed as needed if revegetation is not successful. All parties will be updated on the growth.

RXSoil will treat noxious weeds if they become established within the area of remediation at the recommendation of the Authorized Officer for acceptable weed control methods.

RXSoil will look to the State Land Office to advise of any additional revegetation methods, objectives and seasons to plant.

A closure report will be submitted summarizing all remedial and reclamation efforts completed.

**END OF REPORT**

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 145236

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 145236
	Action Type: [C-144] Permanent Pit Plan (C-144P)

**CONDITIONS**

Created By	Condition	Condition Date
jburdine	None	9/23/2022